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International Application No.
International Filing Date
Name of receiving Office and "PCT International Application"

REQUE	ST					
-			International Filir	ng Date	e	
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.		Name of receiving Office and "PCT International Application" Applicant's or agent's file reference (if desired) (12 characters maximum) NEB-238-PCT				
Box No. I TITLE OF INVENCOMPOSITIONS AND MET MUTATED RNASE III		R GENERAT			<u> </u>	D RNA USING
Box No. II APPLICANT		This person	n is also inventor		_	
Name and address: (Family name follo The addressmust include postal code and Box is the applicant's State (that is, country	name of count	ry. The country of th	ne address indicated i	n this	Telephone No.	
NEW ENGLAND BIOLA		,		,	Facsimile No.	
Beverly, MA 01915					Teleprinter No.	
03					Applicant's regist	tration No. with the Office
State (that is, country) of nationality: US State (that is, country) US			of residence:			
	ll designated tates	X all designate the United S	d States except tates of America		the United States of America only	the States indicated in the Supplemental Box
Box No. III FURTHER APPI	LICANT(S)	AND/OR (FURT	HER) INVENTO	R(S)		
Name and address: (Family name follo The address must include postal code and Box is the applicant's State (that is, country MAINA, Claude V. 837 Main Street West Newbury, MA 0198 US	I name of count y) of residence	rv. The country of ti	he address indicated i	in this	inventor is marke	t only t and inventor only (If this check-box d, do not fill in below.) tration No. with the Office
State (that is, country) of nationality: US State (that is, country) US			ountry) of residence:		
for the purposes of:	ll designated States	all designate the United S	ed States except States of America	X	the United States of America only	the States indicated in the Supplemental Box
X Further applicants and/or (fu	rther) invente	ors are indicated	on a continuation s	heet.		
Box No. IV AGENT OR CO	MMON REI	PRESENTATIV	E; OR ADDRESS	FOR	CORRESPONDE	ENCE
The person identified below is her of the applicant(s) before the comp	etent Interna	tional Authoritie	s as:	X	agent	common representative
	owed by given n include postal	name; for a legal en code and name of c	tity, full official design country.)	nation.	Telephone No.	
STRIMPEL, Harriet M. New England Biolabs, Inc. 32 Tozer Road			Facsimile No.			
Beverly, MA 01915 US			Teleprinter No.			
					Agent's registrat	ion No. with the Office
Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the space above is used instead to indicate a special address to which correspondence should be sent.						

Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S)				
If none of the following sub-boxes is used, this sheet should not be i	included in the request.			
Name and address: (Family name followed by given name; for a legal entity, ful The address must include postal code and name of country. The country of the add Box is the applicant's State (that is, country) of residence if no State of residence is in TZERTZINIS, George 10 Worcester Street, #2 Cambridge, MA 02139 US	ress indicated in this			
State (that is, country) of nationality:	tate (that is, country) of residence:			
GR U	S			
This person is applicant for the purposes of: all designated states the United States	tes except of America			
Name and address: (Family name followed by given name; for a legal entity, fu. The address must include postal code and name of country. The country of the add Box is the applicant's State (that is, country) of residence if no State of residence is: KUMAR, Sanjay 83 Old Right Road Ipswich, MA 01938 US	dress indicated in this			
State (that is, country) of nationality: US US	tate (that is, country) of residence:			
This person is applicant for the purposes of: all designated States all designated States of the United States of	tes except of America only the States indicated in the Supplemental Box			
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State (that is, country) of nationality:	tate (that is, country) of residence:			
This person is applicant for the purposes of: all designated States all designated States the United States	the United States of America only the States indicated in the Supplemental Box			
Further applicants and/or (further) inventors are indicated on another continuation sheet.				

Sheet No. ...3...

Box No. V	DESIGNATI	ONS			
The filing of the filing date, for	nis request const the grant of eve	titutes under Rule 4.9(a), the ry kind of protection available	e designation of all Contra and, where applicable, for	acting States bound by the or the grant of both region	ne PCT on the international nal and national patents.
However,					
DE Geri	many is not desi	ignated for any kind of nation	al protection		
KR Rep	oublic of Korea i	s not designated for any kind	of national protection		
RURus	sian Federation	is not designated for any kind	d of national protection		:
the national lo	(The check-boxes above may be used to exclude (irrevocably) the designations concerned in order to avoid the ceasing of the effect, under the national law, of an earlier national application from which priority is claimed. See the Notes to Box No. V as to the consequences of such national law provisions in these and certain other States)				ceasing of the effect, under V as to the consequences of
Box No. VI	PRIORITY	CLAIM			
The priority o	f the following e	carlier application(s) is hereby	claimed:		
	ng date	Number	V	Where earlier application	is:
(day/mo	application onth/year)	of earlier application	national application: country or Member of WTO	regional application:* regional Office	international application: receiving Office
item (1) 23 Janu (23.0	ary 2004 1.04)	60/538,805	US		
	uary 2004 2.2004)	60/543,880	US		
	ay 2004 5.2004)	60/572,240	US		
Further p	priority claims a	re indicated in the Supplemen	tal Box.		
The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) (only if the earlier application was filed with the Office which for the purposes of this international application is the receiving Office) identified above as: X all items					
inaustriai Pr	operty or one M	ember of the World Trade Org	ganization for which that c	earlier application was f	filed (Rule 4.10(b)(ii)):
Box No. VII	INTEDNA	TIONAL SEADCHING AIR	MODERA		
	Box No. VII INTERNATIONAL SEARCHING AUTHORITY Choice of International Searching Authority (ISA) (if two or more International Searching Authorities are competent to carry out the				
international	l search, indicat	e the Authority (ISA) (if tw e the Authority chosen; the tw	vo or more International S o-letter code may be used,	Searching Authorities ar):	re competent to carry out the
ISA /US	•••••		• • • • • • • • • • • • • • • • • • • •		
Request to u	ise results of ea I Searching Auth	rlier search; reference to the	at search (if an earlier sea	arch has been carried ou	at by or requested from the
Date (day/ma	-	Numb	er Cour	ntry (or regional Office)	
Box No. VII	I DECLA	RATIONS			· · · · · · · · · · · · · · · · · · ·
The following check-boxes	ng declarations	are contained in Boxes Nos. Veate in the right column the nu	VIII (i) to (v) (mark the ap	plicable	Number of declarations
1—					· accan an tons
	Box No. VIII (i) Declaration as to the identity of the inventor : Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing				•
	date, to apply for and be granted a patent :				:
Box N	lo. VIII (iii)	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application :			
Box N	ło. VIII (iv)	III (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America) :			
Box N	√o. VIII (v)	Declaration as to non-prejud	dicial disclosures or excep	otions to lack of novelty	:

Sheet No.	4
NICET NO	7

Box No. IX CHECK LIST; LANGUAGE OF FILING					
This international application contains: (a) in paper form, the following number of	This international application is accompanied by the following item(s) (mark the applicable check-boxes below and indicate in right column the principle of each item):	Number of items			
sheets: request(including	right column the number of each item): 1. X fee calculation sheet: 1				
declaration sheets) : 4	2. original separate power of attorney	: 1			
description (excluding	3. X original general power of attorney	:1			
sequence listings and/or tables related thereto) : 49	4. copy of general power of attorney, reference number,				
claims : 5	if any:	:			
abstract : 1	5. statement explaining lack of signature	:			
drawings : 17	6. priority document(s) identified in Box No. VI as item(s):				
Sub-total number of sheets: 76 sequence listings: 23	7. translation of international application into (language):	. 1			
tables related thereto : (for both, actual number of	8. separate indications concerning deposited microorganism or other biological material	·			
sheets if filed in paper form, whether or not also filed in	9. X sequence listings in computer readable form	: 1			
computer readable form; see (c) below)	(indicate type and number of carriers) (i) Copy submitted for the purposes of international search under				
Total number of sheets : 99	Rule 13ter only (and not as part of the international application (ii) (only where check-box (b)(i) or (c)(i) is marked in left column)):23			
(b) only in computer readable form (Section 801(a)(i))	additional copies including, where applicable, the copy for the purposes of international search under Rule 13ter				
(i) sequence listings (ii) tables related thereto	(iii) together with relevant statement as to the identity of the copy of copies with the sequence listings mentioned in left column	:1			
(c) also in computer readable form (Section 801(a)(ii))	10. tables in computer readable form related to sequence listings (indicate type and number of carriers)				
(i) sequence listings (ii) tables related thereto	 (i) copy submitted for the purposes of international search under Section 802(b-quater) only (and not as part of the international 				
Type and number of carriers (diskette,	application) (ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column	ੑ: 			
CD-ROM, CD-R or other) on which are contained the	 (ii) (only where check-box (b)(ii) or (c)(ii) is marked in left column additional copies including, where applicable, the copy for the purposes of international search under Section 802(b-quater) 	,			
sequence listings:	(iii) together with relevant statement as to the identity of the copy of	r			
tables related thereto:	copies with the tables mentioned in left column	:			
(additional copies to be indicated under items 9(ii) and/or 10(ii), in right column)	11. other (specify):	:			
Figure of the drawings which	Language of filing of the				
should accompany the abstract: 3	international application: English				
Box No. X SIGNATURE OF APPLICAN Next to each signature, indicate the name of the person sign	NT, AGENT OR COMMON REPRESENTATIVE ing and the capacity in which the person signs (if such capacity is not obvious from reading th	e request).			
	- Hamet Shungel				
	Harriet M. Strimpel, D.Phil., Chief Patent C	Counsel			
and Assistant Clerk					
For receiving Office use only					
Date of actual receipt of the purported international analysis at international analysis at international analysis.	2. Dray	vings:			
international application:	\ <u></u>	Ĭ			
3. Corrected date of actual receipt due to later b	out	eived:			
timely received papers or drawings completing the purported international application:					
Date of timely receipt of the required corrections under PCT Article 11(2):	not	received:			
5. International Searching Authority (if two or more are competent): ISA /	6. Transmittal of search copy delayed until search fee is paid				
For International Bureau use only					
Date of receipt of the record copy by the International Bureau:					

This sheet is not part of and does not count as a sheet of the international application. **PCT** For receiving Office use only FEE CALCULATION SHEET International Application No. Annex to the Request Applicant's or agent's NEB-238-PCT file reference Date stamp of the receiving Office NEW ENGLAND BIOLABS, INC., et al. CALCULATION OF PRESCRIBED FEES 300.00 T 1,00<u>0.00</u> s 2. SEARCH FEE..... International search to be carried out by US (If two or more International Searching Authorities are competent to carry out the international search, indicate the name of the Authority which is chosen to carry out the international search.)

Applicant

3. INTERNATIONAL FILING FEE	11
Where item (b) and/or (c) of Box No. IX apply, enter Sub-total number of sheets Where item (b) and (c) of Box No. IX do not apply, enter Total number of sheets	
il first 30 sheets	
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	
additional component (only if sequence listings and/or tables related thereto are filed in computer readable form under Section 801(a)(i), or both in that form and on paper, under Section 801(a)(ii)):	
$\frac{400 \text{ x}}{\text{fee per sheet}} = \frac{13}{13}$	
Add amounts entered at i1, i2 and i3 and enter total at I	
(Applicants from certain States are entitled to a reduction of 75% of the international filing fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the international filing fee.)	
4. FEE FOR PRIORITY DOCUMENT (if applicable). 60.00 P	
5. TOTAL FEES PAYABLE USD 3,322.00 Add amounts entered at T, S, I and P, and enter total in the TOTAL box TOTAL	
MODE OF PAYMENT	
authorization to charge deposit account (see below) postal money order cash coupons	
X cheque	ecify):
AUTHORIZATION TO CHARGE (OR CREDIT) DEPOSIT ACCOUNT (This mode of payment may not be available at all receiving Offices) Receiving Office: RO/	
Authorization to charge the total fees indicated above. Deposit Account No.: 14-	
(This check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) Authorization to charge any deficiency or credit any overpayment in the total fees indicated above. Date: 21 January 2004 Name: Harriet M. Stri	
Authorization to charge the fee for priority document. Signature:	Oningel
T. DOWN CO. C.	otes to the fee calculation shee
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